NEZ Infratech Private Limited
Civil Engineering Consultants
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Phone No : + 91 80 26731085, 40197979 e-mail : nezcv@gmail.com info@nezpl.com website:www.nezpl.com
CIN:U70100KA2013PTC084344, PAN:AAFCN1036R, GSTIN 29AAFCN1036R1ZZ

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for drain raft near Divya Apartment
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES
(IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M15 Date of Casting: 27-11-2021

Water-Cement Ratio : 0.45 Date of Testing: 25-12-2021

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.11	22500	358	15.9	**15.9**
2	28	8.05	22500	362	16.1	
3	28	8.10	22500	356	15.8	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

S. Mopth
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Jayantmrd
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CIN:U70100KA2015PTC084544, PAN:AAFCN1036R, GSTIN 29AAFCN1036R1ZZ

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for drain raft at Abbigere Park
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M15 Date of Casting:15-12-2021

Water-Cement Ratio : 0.45 Date of Testing:13-01-2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	7.9	22500	367	16.3	**16.5**
2	28	8.05	22500	378	16.8	
3	28	8.10	22500	371	16.5	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for drain raft in front of SR complex
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M15 Date of Casting:19-01-2022

Water-Cement Ratio : 0.45 Date of Testing:17-02-2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	7.99	22500	353	15.7	**16.1**
2	28	8.0	22500	365	16.2	
3	28	8.12	22500	371	16.5	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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CIN:U70100KA2015PTC084544, PAN:AAFCN1036R, GSTIN 29AAFCN1036R1ZZ

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for drain raft in front of SR complex
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road,
Bengaluru 560061

Grade of Concrete : M15 Date of Casting:19-01-2022

Water-Cement Ratio : 0.45 Date of Testing:17-02-2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	7.99	22500	353	15.7	**16.1**
2	28	8.0	22500	365	16.2	
3	28	8.12	22500	371	16.5	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for drain raft near nursery
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M15 Date of Casting:18-02-2022

Water-Cement Ratio : 0.45 Date of Testing:16-03-2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.1	22500	358	15.9	**16.3**
2	28	8.05	22500	371	16.5	
3	28	8.10	22500	374	16.6	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for drain wall at Visveshwarya park
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting:18-10-2021

Water-Cement Ratio : 0.45 Date of Testing:16-11-2021

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.12	22500	470	20.9	**21.2**
2	28	8.06	22500	477	21.2	
3	28	8.00	22500	483	21.5	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for drain wall at Ashok college
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting:21-10-2021

Water-Cement Ratio : 0.45 Date of Testing:18-11-2021

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	7.99	22500	495	22	**22**
2	28	8.05	22500	492	21.9	
3	28	8.12	22500	502	22.3	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for drain wall at Ashok college
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting:21-10-2021

Water-Cement Ratio : 0.45 Date of Testing:18-11-2021

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	7.99	22500	495	22	**22**
2	28	8.05	22500	492	21.9	
3	28	8.12	22500	502	22.3	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for drain wall at Divya apartments
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting:17-11-2021

Water-Cement Ratio : 0.45 Date of Testing:15-12-2021

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.00	22500	486	21.6	**21.8**
2	28	8.02	22500	493	21.9	
3	28	8.06	22500	491	21.8	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for bus culvert slab
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting:16-11-2021

Water-Cement Ratio : 0.45 Date of Testing:14-12-2021

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.10	22500	506	22.5	**22.2**
2	28	7.96	22500	497	22.1	
3	28	8.00	22500	493	21.9	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for box culvert slab at RHS
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting:24-12-2021

Water-Cement Ratio : 0.45 Date of Testing:22-01-2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.10	22500	506	22.5	22.2
2	28	7.96	22500	491	21.8	
3	28	8.00	22500	502	22.3	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for slab of SSM culvert RHS
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting:13-01-2022

Water-Cement Ratio : 0.45 Date of Testing:11-02-2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.00	22500	477	21.2	**21.13**
2	28	8.02	22500	470	20.9	
3	28	8.14	22500	479	21.3	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for slab of SSM culvert RHS
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting:21-01-2022

Water-Cement Ratio : 0.45 Date of Testing:19-02-2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.10	22500	486	21.6	21.6
2	28	7.96	22500	491	21.8	
3	28	8.00	22500	479	21.3	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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CIN:U70100KA2015PTC084544, PAN:AAFCN1036R, GSTIN 29AAFCN1036R1ZZ

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for drain wall near LHS of Bus culvert
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting:17-02-2022

Water-Cement Ratio : 0.45 Date of Testing:15-03-2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.00	22500	495	22	22.0
2	28	8.02	22500	500	22.2	
3	28	8.14	22500	488	21.7	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

Prepared by

Checked by

Approved by

Scanned with CamScanner

NEZ Infratech Private Limited
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CIN:U70100KA2015PTC084544, PAN:AAFCN1036R, GSTIN 29AAFCN1036R1ZZ

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for drain wall near RHS of Bus culvert
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting:18-02-2022

Water-Cement Ratio : 0.45 Date of Testing:16-03-2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.10	22500	484	21.5	**21.73**
2	28	8.06	22500	493	21.9	
3	28	8.00	22500	491	21.8	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for drain wall near Visveshwarya Park
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting:11-03-2022

Water-Cement Ratio : 0.45 Date of Testing:09-04-2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.00	22500	488	21.7	**22.0**
2	28	8.02	22500	495	22.0	
3	28	8.14	22500	497	22.1	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

Prepared by

Checked by

Nez Infratech Pvt. Ltd.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for SSM culvert slab at LHS
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road,
Bengaluru 560061

Grade of Concrete : M20 Date of Casting: 21-04-2022

Water-Cement Ratio : 0.45 Date of Testing: 28-04-2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	7	8.00	22500	327	14.5	**14.5**
2	7	8.02	22500	330	14.7	
3	7	8.10	22500	320	14.2	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 7 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for SSM culvert slab at LHS
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting:21-04-2022

Water-Cement Ratio : 0.45 Date of Testing:28-04-2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	7	8.10	22500	329	14.6	**14.4**
2	7	7.96	22500	320	14.2	
3	7	8.00	22500	326	14.5	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 7 days.

S. Nath
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Jayendra
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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for box culvert slab
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting:22-04-2022

Water-Cement Ratio : 0.45 Date of Testing:29-04-2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	7	7.99	22500	313	13.9	**14.2**
2	7	8.05	22500	326	14.5	
3	7	8.12	22500	320	14.2	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 7 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Concrete cubes for deck slab near Ashok college
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting:25-04-2022

Water-Cement Ratio : 0.45 Date of Testing:02-05-2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	7	8.00	22500	303	13.5	**13.7**
2	7	8.02	22500	313	13.9	
3	7	8.14	22500	311	13.8	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 7 days.

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CIDC Regd No 220929 CIDC

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	Tata TMT Steel bars
Technical References	IS 1786-2008

TEST REPORT ON REINFORCEMENT STEEL
(IS 1786-2008)

Section/ Location of Lab	:	NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061
Grade of Steel	:	Fe 550
Description of Steel	:	TATA TMT STEEL
Date of Testing	:	20-09-2021

		10mm		12mm		16mm	
Sl. No.	Details	Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
1	Dia of bar	10mm	10mm	12mm	12mm	16mm	16mm
2	Weight per meter Length Kg/m	0.626	0.567	0.9	0.834	1.58	1.483
3	Yield Stress fy, N/mm2	665	550	647	550	656	550
4	Percentage of Elongation, %	20.0	10	20.6	10	20.2	10
5	Ultimate Tensile Strength N/mm2	715	585	697	585	704	585
6	Re Bend test	OK		OK		OK	

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20mm		25mm	
Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
20mm	20mm	25mm	25mm
2.483	2.366	3.865	3.697
665	550	643	550
19.5	10	21	10
720	585	701	585
OK		OK	

CHEMICAL PROPERTIES OF STEEL

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Steel : Fe 550

Description of Steel : TATA TMT STEEL

Date of Testing : 20-09-2021

SL No.	Name of the Constituents	10mm	12mm	16mm	20mm	25mm	Requirements as per IS 1786-2008
1	Carbon, % max	0.143	0.175	0.167	0.16	0.182	<0.3
2	Sulphur, % max	0.026	0.022	0.025	0.028	0.03	<0.055
3	Phosphorous, % max	0.036	0.034	0.03	0.028	0.036	<0.05
4	Sulphur,& Phosphorous, % max	0.06	0.057	0.054	0.052	0.061	<0.1

Remarks: the physical and chemical test results obtained are within the permissible limits.

Prepared by

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	VG30 Bitumen
Technical References	IS: 73-2019

PENETRATION TEST
(IS: 1203-1978)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Description : Bitumen VG30

Date of Testing : 26-03-2022

Readings	Test number			Average
	1	2	3	
Penetrometer dial readings				
Initial (mm)	0	0	0	
Final (mm)	45	47	48	
Penetration value (mm)	45	47	48	**46.7**

Remarks: The obtained bitumen penetration is greater than 45mm as specified in IS: 73-2019.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	VG30 Bitumen
Technical References	IS: 73-2019

SOFTENING POINT TEST
(IS: 1205-1978)

Section/ Location of Lab	:	NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061
Description	:	Bitumen VG30
Date of Testing	:	26-03-2022

Test property	Sample no. 1 Ball no.1		Sample no. 2 Ball no.2		Average value
	1	2	3	4	
Temperature (^{0}C) at which sample touches bottom plate	55	54	55	57	**55.25**

Remarks: The obtained bitumen softening point is greater than 47 ^{0}C as specified in IS: 73-2019.

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Agency	Shri. K. P. Dinesh Kumar, M/s Chowdeshwari Concrete India Pvt. Ltd. #801, 8th main, 5th cross, 4th stage BEML Nagar, Rajarajeshwarinagar, Bengaluru.
Name of the work	Widening and Comprehensive Development of Abbigere main road from Renaissance Woods – 3 Apartment to Gangamma Gudi Police Station.
Sample Identification	VG30 Bitumen
Technical References	IS: 73-2019

DUCTILITY TEST
(IS: 1208-1978)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Description : Bitumen VG30

Date of Testing : 26-03-2022

Sl. No.	Test property	Briquette number			Average value
		1	2	3	
1	Ductility value (cm)	110	115	112	**112**

Remarks: The obtained bitumen ductility value is greater than 40 cm as specified in IS: 73-2019.

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